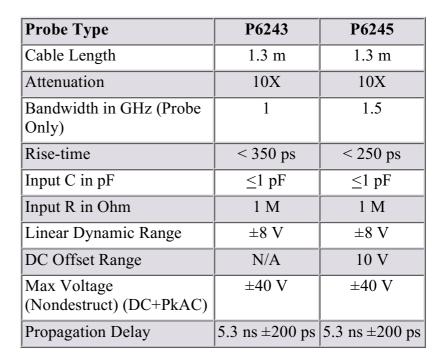
Active Probe for SMDs

P6245 * P6243

Characteristics





P6243.

<u>Features</u>

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60W-13989-3p1, 06/1997, 11/17/2000

1 GHz Active Probe for SMDs

P6243 • P6243S • P6245

Features

- ≤1 pF Input Capacitance
- 1 GHz Bandwidth (probe only)
- 1 MΩ Input Resistance
- . Direct Access to SMDs as Small as 0.5 mm Pitch
- . Measures CMOS, BiCMOS, ECL, GaAs and TTL logic
- · Low Mass Probe Head/Cable
- No Additional Power Supplies or Cables Are Required with TEKPROBE™ BNC Interface

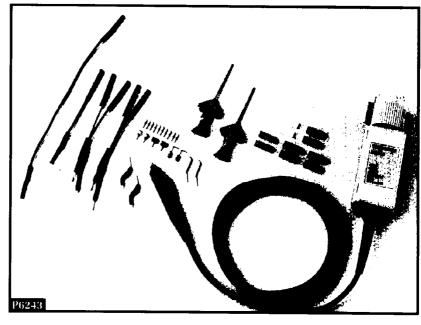
P6245

- ≤1 pF Input Capacitance
- ≥1.5 GHz Bandwidth (Probe Only)
- 1 MΩ Input Resistance
- . Direct Access to SMDs as Small as 0.5 mm Pitch
- . Measures CMOS, BiCMOS, ECL. GaAs and TTL logic
- Low Mass Probe Head/Cable
- No Additional Power Supplies or Cables Are Required with TEKPROBE™ BNC



(Applications

- · High-speed Digital Systems Design
- · Component Design/Characterization
- · Educational Research
- . Manufacturing Engineering and Test



1 GHz Active Probe for SMDs for TEKPROBE™ BNC Interfaces

The P6243 Active FET probe is the high performance probing solution for 500 MHz Digital Storage Oscilloscopes. The P6243 has a probe only bandwidth of 1 GHz and will provide a 500 MHz system bandwidth when used with Tektronix' full line of 500 MHz DSOs. In addition, the P6243 is powered by the TEKPROBE™ BNC interface, eliminating the need for additional power supplies and cables when used with TEKPROBE™ BNC oscilloscopes

The P6243 offers superior signal acquisition on surface mount devices compared to the much higher capacitive loading of passive probes. The P6243 has ≤ 1 pF capacitive loading which allows it to measure high speed signals without affecting the signal or device under test. Furthermore, the included accessories and adapters allow for easy attachment to SMDs.

P6243S

The P6243S is the ideal package for using the P6243 on non-TEKPROBE™ BNC oscilloscopes. The P6243S consists of 2 P6243 probes and the 1103 TEKPROBE™ Power Supply. This provides the full performance of the P6243 (except automatic scale factor readout) on any oscilloscope, including Tektronix' TDS300 Series and 2400 Series oscilloscopes.





See Tektronix on the World Wide Web: http://www.tek.com



SO 9001 Tektronix Measurement in ISO registered facilities.

60 · Accessories

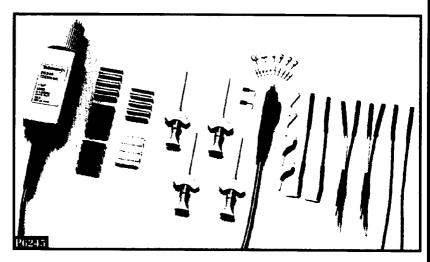
Active FET Probe for SMDs

P6243 • P6243S • P6245

P6245 Active FET Probe for TEKPROBE™ BNC Interfaces

The P6245 Active FET probe provides the electrical and mechanical performance required for today's digital systems designs. The P6245 achieves high-speed signal acquisition by solving three traditional problems:

- Lower DUT loading (≤1 pF/1 MΩ probe loading)
- . Direct and easy access to SMDs (Small compact probe head and versatile attachment accessories allow direct connection to the DUT.)
- Access DUT signals at scope bandwidth (P6245 Active FET Probe provides scope bandwidth at the probe tip for the TDS 684A and TDS 784A.)



CHARACTERISTICS

Bandwidth							Linear	DC Max Voltage		
Probe	Cable	Atten-	in GHz	Rise	Input C	Input	Dynamic	Offset	(Non-	Propagation
Type	Length	uation	(Probe Only)	Time	in pF	R in Ω	Range	Range	destruct)	Delay
P6243	1.3	10X	1.0	350 ps	<1 pF	1M	±8V	N/A	±40	5.3 ns ±200 ps
P6245	1.3	10X	1.5	267 ps	<1 pF	1M	±8V	±10 V	±40	5.3 ns ±200 ps

Active Probe System.

Includes: Two each P6243 Active Probe. 1 each 1103 TEKPROBE™ Power Supply.

P6243

Active Probe

Includes: Two each: 50 mil. 25 mil (0.65 mm), and 0.5 mm SureFoot™ Adapters; 10 each Solderable Probe Tips; 2 each 1 in., 1 each 3 in. and 6 in. Ground Leads; 1 each Y Lead Adapters; 4 each SMT KlipChipTM: 2 each of 5 colors. Cable Markers; 2 each Spring Adapter Right Angle; and Instruction Manual

ORDERING INFORMATION

P6245

Active FET Probe.

Includes: Two each: 50 mil, 25 mil (0.65 mm), and 0.5 mm SureFoot™ Adapters, 10 each Solderable Probe Tips; 2 each 1 in., 3 in., and 6 in. Ground Leads; 2 each Y Lead Adapters. 4 each SMT KlipChipTM; 2 each of 5 colors. Cable Markers; 2 each Spring Adapter: Right Angle; and Instruction Manual.

Power Supply - TEKPROBE™ Power Supply. For use with oscilloscopes without TEKPROBE BNC Interface (TDS 300 Series). Order 1103.

SMD PROBING ADAPTERS*1 SureFoot™ Adapters –

50 mil pitch. Order SF501. 25 mil and 0.65 mm pitch. Order SF502. 0.5 mm pitch. Order SF503.



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Probe Accessories

P6245 • P5100 • P5102

P6245/P6243 **Part Number Description** 003-1383-00 Compensation Box Cover Removal Tool 003-1433-00 Adjustment Tool. 003-1433-01 Package of 5 each of 003-1433-00 016-1315-00 2 each - 5 Colors of Cable Markers. 131-5638-10 10 each - Solderable Probe Tips. 131-5777-00 100 mil Square-pin Ground Adapter. 196-3410-00 Ground lead set includes: 2 each - 1 in., 3 in., 6 in. Ground Leads w/Square Pin Receptacle: 2 each - Y Lead Adapters. 206-0364-00 SMT KlipChip™, 1 each. 214-4227-00 Right Angle Square-pin Adapter. SF501 SureFoot™ Probe Tip Adapter. pkg. of 12. Yellow, 50 mil Pitch SureFoot™ Probe Tip Adapter. SF502 pkg. of 12, Blue, 25 mil/ 0.65 mm Pitch. SF503 SureFoot™ Probe Tip Adapter. pkg. of 12, Red, 0.5 mm pitch. SMG50 SMT KlipChip™, 20 each.

P5100/P5102

Part Number Description

020-2092-01 P5100 Accessory Kit Includes: Regular Retractable Hook Tip. Large Retractable Hook Tip. 6 in. Ground Lead w/Alligator Clip. 18 in. Ground Lead w/4 mm Shielded Banana Plug. Large Crocodile Clip 196-3424-00 P5102 Common Lead Set (Not Shown)

003-1433-01 Package of 5 each of

003-1433-00. above. 013-0291-00 P5100 Probe Tip to BNC Adapter.

016-0127-00 Cable Marker Set. 206-0060-00 Spring Tip (0.08 in. dia.).

344-0461-00 Large Crocodile Clip.

For your local Tektronix representative see the list in the back of this catalog or outside the U.S. call: 1-503-627-1933, inside the U.S. call: 1-800-426-2200.



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